

# FX2 HFO1234ze Air Cooled Chillers

## Outdoor Installation (255 to 1561kW)

Our Climaveneta range of FX2 units are air cooled chillers with screw compressors, designed for delivering high efficiencies in comfort applications.

Available with HFO1234ze refrigerant, the new range features 2 or 3 compressors in multi-circuit configuration.

### Key Features & Benefits:

- Compact design
- Low noise
- Energy efficient
- Available with HFO1234ze refrigerant



FX2 Air Cooled Chillers with HFO1234ze refrigerant  
High Efficiency Version (from 255 to 1561kW)



MODEL		0252	0302	0322	0352	0402	0452	0512	0572	0652
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
COOLING CAPACITY <sup>1</sup>	kW	255.3	289.9	315.1	365.0	405.4	445.9	519.7	573.4	679.0
TOTAL POWER INPUT <sup>1</sup>	kW	75.98	87.26	94.43	106.7	121.7	135.2	156.8	172.2	204.8
EER <sup>1</sup>	kW/kW	3.359	3.321	3.338	3.421	3.331	3.298	3.314	3.330	3.315
ESEER <sup>1</sup>	kW/kW	4.530	4.500	4.560	4.480	4.500	4.590	4.530	4.570	4.530
<b>COOLING ONLY (EN14511 VALUE)</b>										
COOLING CAPACITY <sup>1,2</sup>	kW	255.0	289.5	314.7	364.7	405.0	445.4	519.2	572.9	678.4
EER <sup>1,2</sup>	kW/kW	3.320	3.280	3.310	3.390	3.290	3.250	3.280	3.290	3.270
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>AMBIENT REFRIGERATION</b>										
P <sub>RATED,C</sub> <sup>7</sup>	kW	255	290	315	365	405	445	519	573	678
SEER <sup>7,8</sup>		4.55	4.52	4.61	4.54	4.56	4.61	4.56	4.61	4.60
PERFORMANCE $\eta_s$ <sup>7,9</sup>	%	179	178	181	178	179	181	179	182	181
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
WATER FLOW <sup>1</sup>	l/s	12.21	13.86	15.07	17.46	19.39	21.32	24.85	27.42	32.47
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	38.1	36.3	23.9	32.1	39.7	48.0	34.3	41.8	51.5
<b>REFRIGERANT CIRCUIT</b>										
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	51.0	55.0	59.0	67.0	72.0	81.0	93.0	98.0	123
<b>NOISE LEVEL</b>										
SOUND PRESSURE <sup>3</sup>	dB(A)	66	67	67	68	68	68	68	70	69
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	98	99	99	100	100	100	100	102	102
<b>SIZE AND WEIGHT</b>										
WIDTH (A) <sup>6</sup>	mm	4000	4000	4000	4000	4000	5250	5250	5250	6500
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	3540	3560	3660	3810	4470	4990	5190	5250	6710

MODEL		0772	0902	0972	1052	1152	1243	1373	1503	1593
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
COOLING CAPACITY <sup>1</sup>	kW	781.7	903.5	967.9	1058	1145	1239	1362	1488	1561
TOTAL POWER INPUT <sup>1</sup>	kW	235.6	276.0	287.2	319.7	343.6	373.1	415.8	446.3	473.4
EER <sup>1</sup>	kW/kW	3.318	3.274	3.370	3.309	3.332	3.321	3.276	3.334	3.297
ESEER <sup>1</sup>	kW/kW	4.550	4.530	4.540	4.590	4.630	4.550	4.570	4.590	4.600
<b>COOLING ONLY (EN14511 VALUE)</b>										
COOLING CAPACITY <sup>1,2</sup>	kW	781.0	902.9	967.1	1057	1145	1238	1361	1487	1560
EER <sup>1,2</sup>	kW/kW	3.270	3.240	3.330	3.270	3.290	3.280	3.240	3.290	3.250
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>AMBIENT REFRIGERATION</b>										
P <sub>RATED,C</sub> <sup>7</sup>	kW	781	903	967	1057	1145	1238	1361	1487	1560
SEER <sup>7,8</sup>		4.63	4.61	4.64	4.65	4.69	4.63	4.58	4.67	4.69
PERFORMANCE $\eta_s$ <sup>7,9</sup>	%	182	181	183	183	185	182	180	184	185
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
WATER FLOW <sup>1</sup>	l/s	37.38	43.21	46.28	50.57	54.77	59.24	65.14	71.14	74.65
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	54.3	35.3	52.5	48.4	53.3	46.9	46.2	55.1	60.7
<b>REFRIGERANT CIRCUIT</b>										
COMPRESSORS NR.	No.	2	2	2	2	2	3	3	3	3
CIRCUITS	No.	2	2	2	2	2	3	3	3	3
REFRIGERANT CHARGE	kg	142	152	160	191	195	216	222	232	248
<b>NOISE LEVEL</b>										
SOUND PRESSURE <sup>3</sup>	dB(A)	70	71	71	73	73	73	73	73	73
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	103	104	104	106	106	106	106	106	106
<b>SIZE AND WEIGHT</b>										
WIDTH (A) <sup>6</sup>	mm	7750	7750	9000	10400	10400	11650	11650	12900	12900
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	7650	7900	8340	9370	9440	11380	12070	12680	12930

■ Eurovent Certified Data

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511.
- Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
- Sound power on the basis of measurements taken in compliance with ISO 9614.
- Sound power level in cooling, outdoors.

- Unit in standard configuration, without optional accessories.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281].
- Seasonal energy efficiency ratio.
- Seasonal space cooling energy efficiency.

FX2 Air Cooled Chillers with HFO1234ze refrigerant  
High Efficiency & Low Noise Version (from 252 to 1572kW)



MODEL		0252	0302	0322	0352	0402	0452	0512	0572	0652
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
COOLING CAPACITY <sup>1</sup>	kW	252.3	286.2	310.7	362.2	399.4	445.7	512.4	567.7	669.5
TOTAL POWER INPUT <sup>1</sup>	kW	74.66	86.37	93.79	106.2	121.3	132.5	156.1	173.0	203.9
EER <sup>1</sup>	kW/kW	3.378	3.312	3.312	3.411	3.293	3.364	3.283	3.282	3.283
ESEER <sup>1</sup>	kW/kW	4.560	4.520	4.580	4.510	4.500	4.630	4.550	4.590	4.540
<b>COOLING ONLY (EN14511 VALUE)</b>										
COOLING CAPACITY <sup>112</sup>	kW	252.0	285.9	310.4	361.8	399.0	445.2	512.0	567.2	668.9
EER <sup>112</sup>	kW/kW	3.340	3.270	3.280	3.380	3.260	3.320	3.250	3.240	3.240
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>AMBIENT REFRIGERATION</b>										
P <sub>RATED,C</sub> <sup>7</sup>	kW	252	286	310	362	399	445	512	567	669
SEER <sup>778</sup>		4.57	4.53	4.61	4.56	4.56	4.65	4.56	4.62	4.59
PERFORMANCE η <sub>s</sub> <sup>779</sup>	%	180.1	178	181	179	179	183	179	182	181
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
WATER FLOW <sup>1</sup>	l/s	12.07	13.69	14.86	17.32	19.10	21.31	24.50	27.15	32.02
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	37.2	35.4	23.3	31.6	38.5	47.9	33.4	41.0	50.1
<b>REFRIGERANT CIRCUIT</b>										
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	51.0	55.0	59.0	67.0	72.0	85.0	93.0	98.0	123
<b>NOISE LEVEL</b>										
SOUND PRESSURE <sup>3</sup>	dB(A)	55	55	55	56	57	57	57	58	58
SOUND POWER LEVEL IN COOLING <sup>45</sup>	dB(A)	87	87	87	88	89	89	89	90	91
<b>SIZE AND WEIGHT</b>										
WIDTH (A) <sup>6</sup>	mm	4000	4000	4000	4000	4000	5250	5250	5250	6500
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	3810	3830	3930	4080	4930	5620	5720	5780	7320

MODEL		0772	0902	0972	1052	1152	1243	1373	1503	1593
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
COOLING CAPACITY <sup>1</sup>	kW	771.7	893.3	959.0	1044	1133	1222	1352	1482	1572
TOTAL POWER INPUT <sup>1</sup>	kW	234.8	265.2	287.9	318.4	344.3	372.8	411.5	442.8	479.8
EER <sup>1</sup>	kW/kW	3.287	3.368	3.331	3.279	3.291	3.278	3.286	3.347	3.276
ESEER <sup>1</sup>	kW/kW	4.560	4.540	4.550	4.600	4.640	4.560	4.590	4.640	4.640
<b>COOLING ONLY (EN14511 VALUE)</b>										
COOLING CAPACITY <sup>112</sup>	kW	771.1	892.6	958.2	1043	1133	1221	1351	1481	1572
EER <sup>112</sup>	kW/kW	3.240	3.330	3.290	3.240	3.250	3.240	3.250	3.300	3.250
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>AMBIENT REFRIGERATION</b>										
P <sub>RATED,C</sub> <sup>7</sup>	kW	771	893	958	1043	1133	1221	1351	1481	1572
SEER <sup>778</sup>		4.63	4.62	4.64	4.65	4.70	4.63	4.60	4.72	4.74
PERFORMANCE η <sub>s</sub> <sup>779</sup>	%	182	182	183	183	185	182	181	186	186
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
WATER FLOW <sup>1</sup>	l/s	36.91	42.72	45.86	49.92	54.20	58.44	64.65	70.87	75.20
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	53.0	44.7	51.5	47.2	52.2	45.6	45.5	54.7	35.9
<b>REFRIGERANT CIRCUIT</b>										
COMPRESSORS NR.	No.	2	2	2	2	2	3	3	3	3
CIRCUITS	No.	2	2	2	2	2	3	3	3	3
REFRIGERANT CHARGE	kg	142	155	160	191	195	216	233	243	253
<b>NOISE LEVEL</b>										
SOUND PRESSURE <sup>3</sup>	dB(A)	59	60	61	61	61	61	61	62	62
SOUND POWER LEVEL IN COOLING <sup>45</sup>	dB(A)	92	93	94	94	94.10	94	94	95	95
<b>SIZE AND WEIGHT</b>										
WIDTH (A) <sup>6</sup>	mm	7750	9000	9000	10400	400	11650	12900	12900	12900
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	8270	8910	8980	10010	10080	12300	13620	13740	13880

■ Eurovent Certified Data

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511.
- Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
- Sound power on the basis of measurements taken in compliance with ISO 9614.
- Sound power level in cooling, outdoors.

- Unit in standard configuration, without optional accessories.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281].
- Seasonal energy efficiency ratio.
- Seasonal space cooling energy efficiency.



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**Note:** The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). \*These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of March 2021



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